

FIG. 1

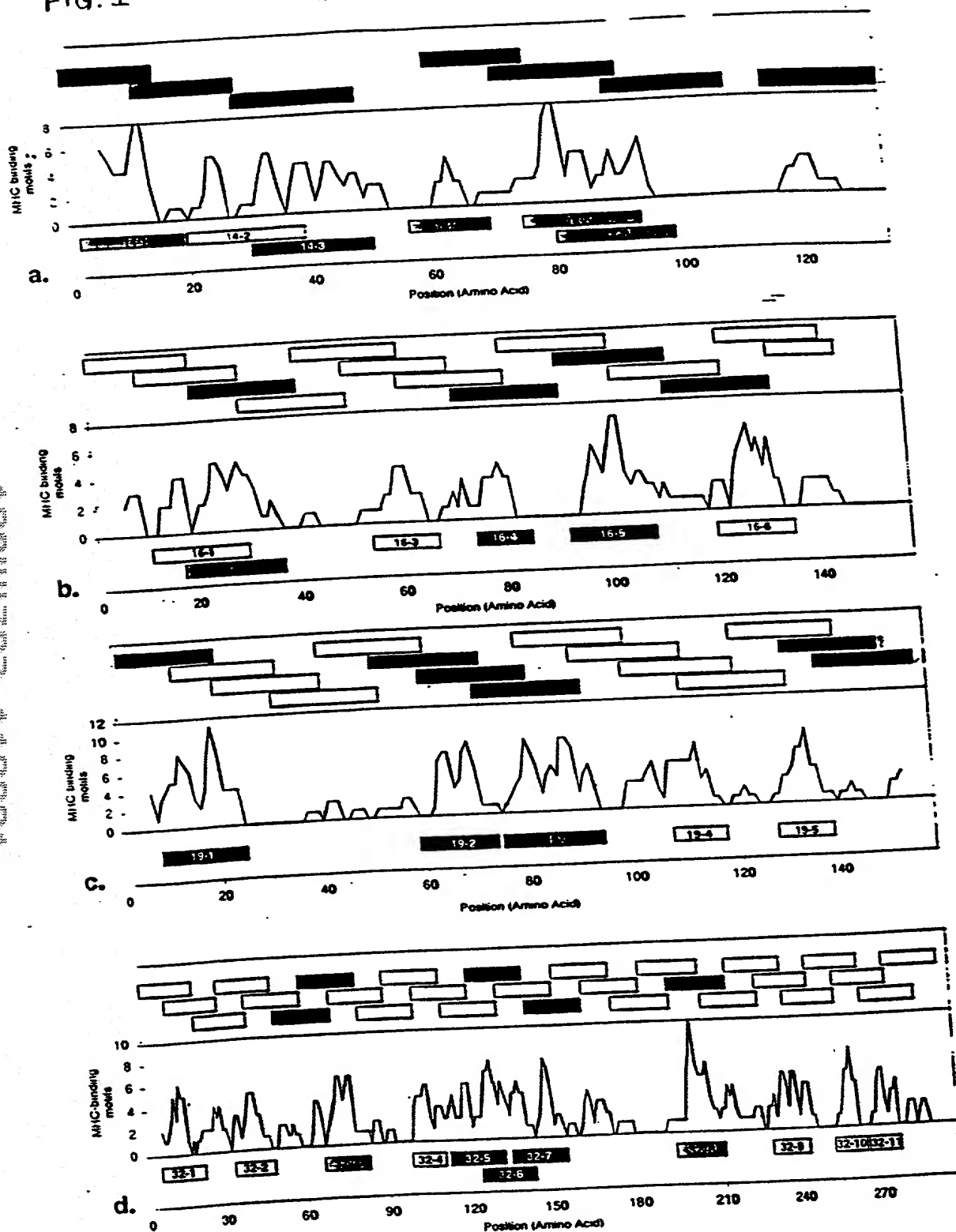


FIG.3

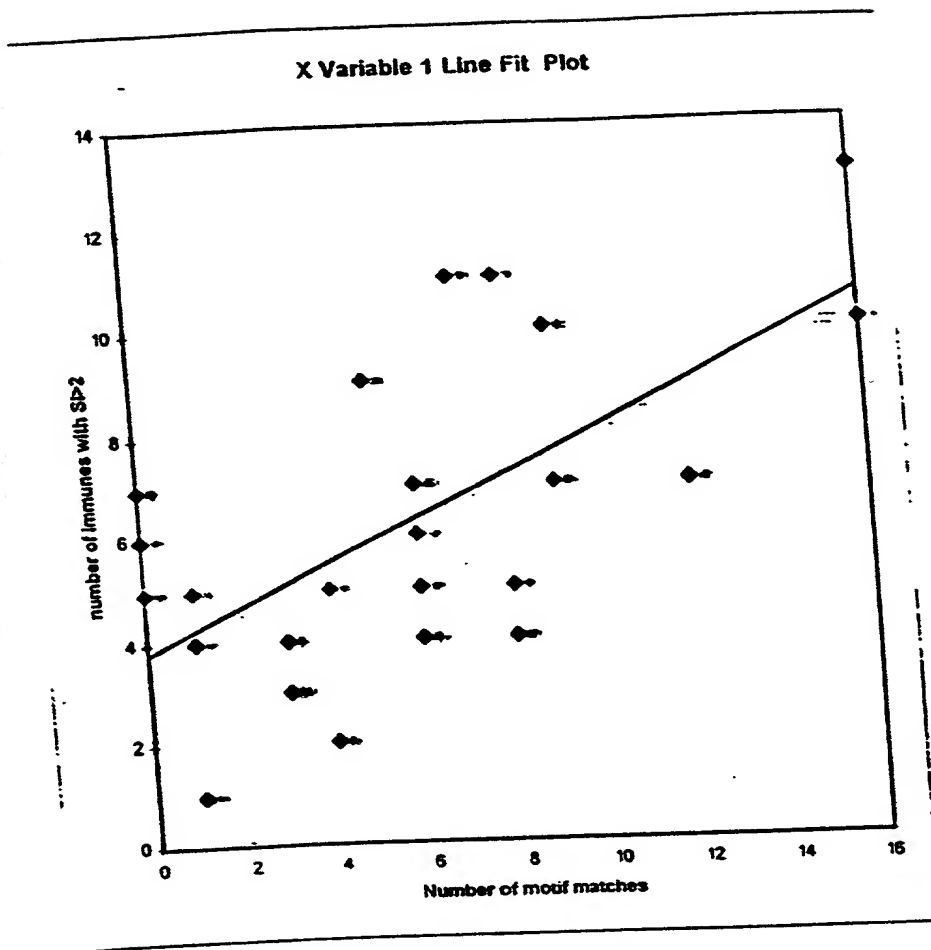


FIG. 4

Name	Start	Stop	Sequence	L	mm	Study	plate label	Prov	Phil	Gambia	combined
14-1	1	18	MLGNAPSVVPNTTLGMHC (SEQ ID NO:1)	18	14	Brian	14-1	9%	10%		10%
14-2	19	38	GSFGSAPSNGLGLVFBG (SEQ ID NO:2)	20	14	Brian	14-2	14%	18%		17%
14-3	30	49	LKGLVFBGVAKLNAEVMs (SEQ ID NO:3)	20	16	Brian	14-3	18%	13%		15%
14-4	56	68	QAVMLGTGTPNRA (SEQ ID NO:4)	13	3	Brian	14-4	5%	13%		10%
14-5	74	93	CEVWSNVSETISGPRLYGEM (SEQ ID NO:5)	20	10	Brian	14-5	9%	13%		12%
14-6	80	99	VSETISGPRLYGEMTMQTR (SEQ ID NO:6)	20	8	Brian	14-6	5%	5%		5%
16-1	11	30	RSLLPFESELFAAPPSFAGL (SEQ ID NO:7)	20	12	Brian	16-1	9%	15%		13%
16-2	17	36	FSELFAAPPSFAGLRPTFDT (SEQ ID NO:8)	20	12	Brian	16-2	5%	15%		11%
16-3	54	66	AELPGVDPKDVID (SEQ ID NO:9)	13	2	Brian	16-3	5%	3%		4%
16-4	74	84	LTIAKARTEQK (SEQ ID NO:10)	11	1	Brian	16-4	23%	0%		8%
16-5	92	107	FAYOSFVRTVSLPVGa (SEQ ID NO:11)	16	10	Brian	16-5	32%	18%		13%
16-6	119	135	GILTVSAVSEKPTK (SEQ ID NO:12)	17	9	Brian	16-6	5%	10%		8%
19-1	7	25	VAVAGAAAILVAGLSGCSSN (SEQ ID NO:13)	19	23	Brian	19-1	36%	23%		28%
19-2	58	74	QNVTSVVCCTTAAGNVN (SEQ ID NO:14)	17	10	Brian	19-2	18%	8%		12%
19-3	75	94	IAIGGAATGIAAVLTDGNPP (SEQ ID NO:15)	20	19	Brian	19-3	14%	15%		15%
19-4	107	117	VTLYTSGTGQ (SEQ ID NO:16)	11	3	Brian	19-4	14%	10%		11%
19-5	127	139	SHYKIGTATGVD (SEQ ID NO:17)	13	5	Brian	19-5	14%	8%		10%
32-1	6	20	LPVEYLQVPSMGR (SEQ ID NO:18)	15	9	Brian	32-1	9%	10%		10%
32-10	252	264	GVDFPDSGTHSW (SEQ ID NO:27)	13	5	Brian	32-10	9%	15%		13%
32-11	265	276	EYWGAAQLNAMKP (SEQ ID NO:28)	12	4	Brian	32-11	5%	15%		11%
32-2	35	47	ALYLLDGLRAQDD (SEQ ID NO:29)	13	4	Brian	32-2	9%	8%		8%

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32-3	67	82	NO:19)	SVMPVGGQSSFYSDW (SEQ ID NO:20)	16	4	Brian	32-3	9%	23%		18%
32-4	99	110		TFLTSELPGWLQ (SEQ ID NO:21)	12	6	Brian	32-4	9%	5%		6%
32-5	113	132		RHVKTGSVVGLSMAASSA (SEQ ID NO:22)	20	10	Brian	32-5	32%	8%		17%
32-6	123	142		VGLSMAASSALTIAIHPQQ (SEQ ID NO:23)	20	19	Brian	32-6	27%	18%		21%
32-7	135	154		LAIHPQQFVYAGAMSGLLD (SEQ ID NO:24)	20	13	Brian	32-7	27%	21%		23%
32-8	193	210		PLLVGKLIANNTRVWVY (SEQ ID NO:25)	18	13	Brian	32-8	0%	23%		15%
32-9	227	242		KFLEGFVRTSNIKFOQ (SEQ ID NO:26)	16	2	Brian	32-9	14%	13%		13%
32G-01	16	28		PSMRDRIKVFQFS (SEQ ID NO:29)	13	2	Krista	32G-01	62%		24%	35%
32G-02	64	75		SGLSVMPVGGQS (SEQ ID NO:30)	13	4	Krista	32G-02	15%		28%	24%
32G-03	122	139		VVGLSMAASSALTIAIYH (SEQ ID NO:31)	18	16	Krista	32G-03	0%		21%	15%
32G-04	136	155		AIYHPQQFVYAGAMSGLLDP (SEQ ID NO:32)	20	6	Krista	32G-04	8%		14%	12%
32G-06	199	211		KLIANNTRVWVYC (SEQ ID NO:33)	13	6	Krista	32G-06	23%		17%	19%
32U-03	117	129		PTGSVVVGLSMAA (SEQ ID NO:34)	13	3	Krista	32U-03	15%		31%	28%
32U-04	142	158		QFVYAGAMSGLLDPSQA (SEQ ID NO:35)	17	8	Krista	32U-04	8%		21%	17%
32U-06	193	211		PLLVGKLIANNTRVWVYC (SEQ ID NO:36)	19	9	Krista	32U-06	23%		21%	22%
38G-01	2	22		KIRLHTLLAVLTAAPLLIAAA (SEQ ID NO:37)	21	23	Krista	38G-01	15%		28%	24%
38G-06	113	133		DMAAHKGLMNLALISAQVN (SEQ ID NO:38)	21	16	Krista	38G-06	38%		24%	28%
38G-07	137	155		PGVSEHLKLGKWLAAAMYQS (SEQ ID NO:39)	19	4	Krista	38G-07	23%		28%	26%
38G-09	167	179		AALNPGVNLPGTA (SEQ ID NO:40)	13	3	Krista	38G-09	0%		21%	21%
38G-11	211	223		PGFGTTVDPPAVP (SEQ ID NO:41)	13	3	Krista	38G-11	31%		31%	31%
38G-14	274	285		LLPDAQSIQAAA (SEQ ID NO:42)	12	8	Krista	38G-14	8%		28%	22%
38G-17	304	322		PAPDGYPIINYEYAVNNR (SEQ ID NO:43)	19	3	Krista	38G-17	15%		24%	21%
38G-18	339	358		AITDGNKASFLDQVHFQPLP (SEQ ID NO:44)	20	3	Krista	38G-18	15%		24%	21%

38G-19	346	358	ASFLDQVHFQPLP (SEQ ID NO:45)	13	2	Krista	38G-19	0%		24%	17%
38KD-1	3	22	IRLHTLLAVLTAAPLLAAA (SEQ ID NO:46)	20	23	Rose	38-1	60%	18%	17%	34%
38KD-10	272	291	NFLPDAQSIQAAAAGFASK (SEQ ID NO:47)	20	16	Rose	38-3	50%	18%	22%	31%
38KD-11	316	335	YAVNNRQKDAATAQTLQAF (SEQ ID NO:48)	20	10	Rose	38-6	40%	18%	22%	28%
38KD-4	86	102	TGSGAGIAQAAAAGTVNI (SEQ ID NO:49)	17	10	Rose	38-5	45%	18%	28%	32%
38KD-5	114	133	MAAHKGLMNLALISAQVNI (SEQ ID NO:50)	20	16	Rose	38-2	45%	27%	17%	30%
38KD-7	169	188	LNPGVNLPGTAVVPLHRSBG (SEQ ID NO:51)	20	10	Rose	38-4	10%	0%	22%	11%
38KD-9	239	258	AETPGCVAYIGISFLDQASQ (SEQ ID NO:52)	20	9	Rose	38-7	25%	55%	17%	31%
38U-01	3	23	IRLHTLLAVLTAAPLLAAAAG (SEQ ID NO:53)	19	23	Krista	38U-01	0%		28%	28%
38U-02	37	49	AGAGTVATTPASS (SEQ ID NO:54)	13	5	Krista	38U-02	23%		17%	19%
38U-05	86	103	TGSGAGIAQAAAAGTVNIG (SEQ ID NO:55)	18	10	Krista	38U-05	0%		28%	28%
38U-06	113	135	DMAAHKGLMNLALISAQVNI (SEQ ID NO:56)	23	16	Krista	38U-06	15%		24%	21%
38U-09	164	177	PQIAALNPGVNLPG (SEQ ID NO:57)	14	5	Krista	38U-09	31%		14%	19%
38U-14	273	295	FLLPDAQSIQAAAAGFASKIPAN (SEQ ID NO:58)	23	17	Krista	38U-14	23%		10%	14%
E6G-01	7	19	NFAGIEAAASAIQ (SEQ ID NO:59)	13	6	Krista	E6G-01	38%		50%	46%
E6U-01	5	24	QWNFAGIEAAASAIQGNVTS (SEQ ID NO:60)	20	9	Krista	E6U-01	38%		32%	34%
ESAT6-1a	7	26	NFAGIEAAASAIQGNVTSIH (SEQ ID NO:61)	20	10	Rose	E6-1	45%	9%	17%	25%
ESAT6-1b	18	37	IQGNVTSIHLLDEGKQSLT (SEQ ID NO:62)	20	7	Rose	E6-2	25%	36%	17%	25%
ESAT6-2	63	78	TELNNALQNLARTISE (SEQ ID NO:63)	16	8	Rose	E6-3	85%	27%	6%	42%
MPT59-1	15	34	LMIGTAAAVVLPGLVGLAGG (SEQ ID NO:64)	20	21	Rose	59-1	35%	27%	33%	32%
MPT59-10	305	324	EYWGAGLNAMKGDILQSSLGA (SEQ ID NO:65)	20	8	Rose	59-5	35%	9%	6%	18%
MPT59-3	100	115	WYQSGLSIVMPVGGQ (SEQ ID NO:66)	16	11	Rose	59-3	35%	0%	17%	19%
MPT59-5	163	178	IGLSMAGSSAMILAAY (SEQ ID NO:81)	16	10	Rose	59-4	55%	36%	11%	35%

MPT59-6	181	199	QQFIYAGSLALLDPSQGM (SEQ ID NO:67)	19	12	Rose	59-2	40%	9%	11%	21%
MPT63-1a	21	40	VVLGWKVSCLKSSTAVIPGY (SEQ ID NO:68)	20	10	Rose	63-2	40%	18%	33%	31%
MPT63-1b	27	46	VSDLKSSTAVIPGYPVAGQV (SEQ ID NO:69)	20	10	Rose	63-3	70%	18%	11%	35%
MPT63-2	56	75	IRGSVTPAVSQFNARTADGI (SEQ ID NO:70)	20	10	Rose	63-1	40%	27%	11%	26%
MPT64-1	3	22	IKIFMLVTA VVLLCSGVAT (SEQ ID NO:71)	20	23	Rose	64-1	35%	27%	11%	25%
MPT64-2a	50	69	YNINISLPSYYPDQKSLNY (SEQ ID NO:72)	20	7	Rose	64-3	70%	36%	6%	39%
MPT64-3	103	122	AIPPRGTQAVVVLKVYQNAAGG (SEQ ID NO:73)	20	10	Rose	64-2	60%	64%	11%	44%
MPT70-1a	9	28	ATSFAAAGLAALAVAVSPPA (SEQ ID NO:74)	20	26	Rose	70-1	30%	27%	28%	28%
MPT70-1b	11	30	SFAAAGLAALAVAVSPPAAA (SEQ ID NO:75)	20	26	Rose	70-2	55%	36%	11%	35%
MPT70-4	85	97	VNLVDLTNSGQYT (SEQ ID NO:76)	13	7	Rose	70-7	55%	9%	11%	27%
MPT70-5a	104	123	AAFSKLPASTIDELKTNSL (SEQ ID NO:77)	20	10	Rose	70-5	50%	18%	22%	31%
MPT70-5b	114	133	IDELKTNSLLTSILTYHVV (SEQ ID NO:78)	20	14	Rose	70-3	85%	64%	22%	58%
MPT70-5c	124	143	LTSILTYHVVAGQTSANVV (SEQ ID NO:79)	20	13	Rose	70-4	50%	18%	11%	28%
MPT70-6	174	192	GVSTANATVYMIDSVLMPP (SEQ ID NO:80)	19	11	Rose	70-6	55%	45%	17%	39%

Brian's peptides in Phil = pop. size of 39
 Brian's peptides in Prov = pop size of 22

Rose's peptides in Phil = pop size of 11
 Rose's peptides in Prov = pop size of 20
 Rose's peptides in Gambia = pop size of 18

Krista's peptides in Gambia 1995 = pop size of 12
 Krista's peptides in Gambia 1996 = pop size of 17
 Krista's peptides in Providence 1997 = pop size of 13
 combined = (%resp pop A x pop size A + %resp pop B x popsize B)/(popsize A + popsize B)
 L = length
 mm = motif match